OIPE

RAW SEQUENCE LISTING   DATE: 01/16/2002
PATENT APPLICATION: US/09/904,786   TIME: 15:54:56

Input Set : N:\Crf3\RULE60\09904786.raw
Output Set: N:\CRF3\01162002\I904786.raw

```
 1 <110> APPLICANT: Genentech, Inc.
 2         Ashkenazi, Avi
 3         Botstein, David
 4         Desnoyers, Luc
 5         Eaton, Dan L.
 6         Ferrara, Napoleone
 7         Filvaroff, Ellen
 8         Fong, Sherman
 9         Gao, Wei-Qiang
10         Gerber, Hanspeter
11         Gerritsen, Mary E.
12         Goddard, A.
13         Godowski, Paul J.
14         Grimaldi, Christopher J.
15         Gurney, Austin L.
16         Hillan, Kenneth, J.
17         Kljavin, Ivar J.
18         Mather, Jennie P.
19         Pan, James
20         Paoni, Nicholas F.
21         Roy, Margaret Ann
22         Stewart, Timothy A.
23         Tumas, Daniel
24         Williams, P. Mickey
25         Wood, William, I.
26 <120> TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
27         Acids Encoding the Same
28 <130> FILE REFERENCE: 10466-14
29 <140> CURRENT APPLICATION NUMBER: US/09/904,786
30 <141> CURRENT FILING DATE: 2001-07-12
32 <150> PRIOR APPLICATION NUMBER: 09/665,350
33 <151> PRIOR FILING DATE: 2000-09-18
35 <160> NUMBER OF SEQ ID NOS: 423
37 <210> SEQ ID NO: 1
38 <211> LENGTH: 1825
39 <212> TYPE: DNA
40 <213> ORGANISM: Homo Sapien
41 <400> SEQUENCE: 1
42       actgcacctc ggttctatcg attgaattcc ccggggatcc tctagagatc 50
43       cctcgacctc gacccacgcg tccgggccgg agcagcacgg ccgcaggacc 100
44       tggagctccg gctgcgtctt cccgcagcgc tacccgccat gcgcctgccg 150
45       cgccggggccg cgctgggggct cctgccgctt ctgctgctgc tgccgcccgc 200
46       gccggaggcc gccaagaagc cgacgccctg ccaccggtgc cggggggctgg 250
```

RAW SEQUENCE LISTING   DATE: 01/16/2002
PATENT APPLICATION: US/09/904,786   TIME: 15:54:56

Input Set : N:\Crf3\RULE60\09904786.raw
Output Set: N:\CRF3\01162002\I904786.raw

```
47        tggacaagtt taaccagggg atggtggaca ccgcaaagaa gaactttggc 300
48        ggcgggaaca cggcttggga ggaaaagacg ctgtccaagt acgagtccag 350
49        cgagattcgc ctgctggaga tcctggaggg gctgtgcgag agcagcgact 400
50        tcgaatgcaa tcagatgcta gaggcgcagg aggagcacct ggaggcctgg 450
51        tggctgcagc tgaagagcga atatcctgac ttattcgagt ggttttgtgt 500
52        gaagacactg aaagtgtgct gctctccagg aacctacggt cccgactgtc 550
53        tcgcatgcca gggcggatcc cagaggccct gcagcgggaa tggccactgc 600
54        agcggagatg ggagcagaca gggcgacggg tcctgccggt gccacatggg 650
55        gtaccagggc ccgctgtgca ctgactgcat ggacggctac ttcagctcgc 700
56        tccggaacga gacccacagc atctgcacag cctgtgacga gtcctgcaag 750
57        acgtgctcgg gcctgaccaa cagagactgc ggcgagtgtg aagtgggctg 800
58        ggtgctggac gagggcgcct gtgtggatgt ggacgagtgt gcggccgagc 850
59        cgcctccctg cagcgctgcg cagttctgta agaacgccaa cggctcctac 900
60        acgtgcgaag agtgtgactc cagctgtgtg ggctgcacag gggaaggccc 950
61        aggaaactgt aaagagtgta tctctggcta cgcgagggag cacggacagt 1000
62        gtgcagatgt ggacgagtgc tcactagcag aaaaaacctg tgtgaggaaa 1050
63        aacgaaaact gctacaatac tccagggagc tacgtctgtg tgtgtcctga 1100
64        cggcttcgaa gaaacggaag atgcctgtgt gccgccggca gaggctgaag 1150
65        ccacagaagg agaaagcccg acacagctgc cctcccgcga agacctgtaa 1200
66        tgtgccggac ttacccttta aattattcag aaggatgtcc cgtggaaaat 1250
67        gtggccctga ggatgccgtc tcctgcagtg gacagcggcg gggagaggct 1300
68        gcctgctctc taacggttga ttctcatttg tcccttaaac agctgcattt 1350
69        cttggttgtt cttaaacaga cttgtatatt ttgatacagt tctttgtaat 1400
70        aaaattgacc attgtaggta atcaggagga aaaaaaaaaa aaaaaaaaaa 1450
71        aaagggcggc cgcgactcta gagtcgacct gcagaagctt ggccgccatg 1500
72        gcccaacttg tttattgcag cttataatgg ttacaaataa agcaatagca 1550
73        tcacaaattt cacaaataaa gcattttttt cactgcattc tagttgtggt 1600
74        ttgtccaaac tcatcaatgt atcttatcat gtctggatcg ggaattaatt 1650
75        cggcgcagca ccatggcctg aaataacctc tgaaagagga acttggttag 1700
76        gtaccttctg aggcggaaag aaccagctgt ggaatgtgtg tcagttaggg 1750
77        tgtggaaagt ccccaggctc cccagcaggc agaagtatgc aagcatgcat 1800
78        ctcaattagt cagcaaccca gtttt 1825
80 <210> SEQ ID NO: 2
81 <211> LENGTH: 353
82 <212> TYPE: PRT
83 <213> ORGANISM: Homo Sapien
84 <400> SEQUENCE: 2
85        Met Arg Leu Pro Arg Arg Ala Ala Leu Gly Leu Leu Pro Leu Leu
86          1               5                  10                  15
87        Leu Leu Leu Pro Pro Ala Pro Glu Ala Ala Lys Lys Pro Thr Pro
88                         20                  25                  30
89        Cys His Arg Cys Arg Gly Leu Val Asp Lys Phe Asn Gln Gly Met
90                         35                  40                  45
91        Val Asp Thr Ala Lys Lys Asn Phe Gly Gly Gly Asn Thr Ala Trp
92                         50                  55                  60
93        Glu Glu Lys Thr Leu Ser Lys Tyr Glu Ser Ser Glu Ile Arg Leu
94                         65                  70                  75
95        Leu Glu Ile Leu Glu Gly Leu Cys Glu Ser Ser Asp Phe Glu Cys
96                         80                  85                  90
```

RAW SEQUENCE LISTING   DATE: 01/16/2002
PATENT APPLICATION: US/09/904,786   TIME: 15:54:56

Input Set : N:\Crf3\RULE60\09904786.raw
Output Set: N:\CRF3\01162002\I904786.raw

```
97        Asn Gln Met Leu Glu Ala Gln Glu Glu His Leu Glu Ala Trp Trp
98                        95                  100                 105
99        Leu Gln Leu Lys Ser Glu Tyr Pro Asp Leu Phe Glu Trp Phe Cys
100                       110                 115                 120
101         Val Lys Thr Leu Lys Val Cys Cys Ser Pro Gly Thr Tyr Gly Pro
102                       125                 130                 135
103       Asp Cys Leu Ala Cys Gln Gly Gly Ser Gln Arg Pro Cys Ser Gly
104                       140                 145                 150
105       Asn Gly His Cys Ser Gly Asp Gly Ser Arg Gln Gly Asp Gly Ser
106                       155                 160                 165
107       Cys Arg Cys His Met Gly Tyr Gln Gly Pro Leu Cys Thr Asp Cys
108                       170                 175                 180
109       Met Asp Gly Tyr Phe Ser Ser Leu Arg Asn Glu Thr His Ser Ile
110                       185                 190                 195
111       Cys Thr Ala Cys Asp Glu Ser Cys Lys Thr Cys Ser Gly Leu Thr
112                       200                 205                 210
113       Asn Arg Asp Cys Gly Glu Cys Glu Val Gly Trp Val Leu Asp Glu
114                       215                 220                 225
115       Gly Ala Cys Val Asp Val Asp Glu Cys Ala Ala Glu Pro Pro Pro
116                       230                 235                 240
117       Cys Ser Ala Ala Gln Phe Cys Lys Asn Ala Asn Gly Ser Tyr Thr
118                       245                 250                 255
119       Cys Glu Glu Cys Asp Ser Ser Cys Val Gly Cys Thr Gly Glu Gly
120                       260                 265                 270
121       Pro Gly Asn Cys Lys Glu Cys Ile Ser Gly Tyr Ala Arg Glu His
122                       275                 280                 285
123       Gly Gln Cys Ala Asp Val Asp Glu Cys Ser Leu Ala Glu Lys Thr
124                       290                 295                 300
125       Cys Val Arg Lys Asn Glu Asn Cys Tyr Asn Thr Pro Gly Ser Tyr
126                       305                 310                 315
127       Val Cys Val Cys Pro Asp Gly Phe Glu Glu Thr Glu Asp Ala Cys
128                       320                 325                 330
129       Val Pro Pro Ala Glu Ala Glu Ala Thr Glu Gly Glu Ser Pro Thr
130                       335                 340                 345
131       Gln Leu Pro Ser Arg Glu Asp Leu
132                       350
134 <210> SEQ ID NO: 3
135 <211> LENGTH: 2206
136 <212> TYPE: DNA
137 <213> ORGANISM: Homo Sapien
138 <400> SEQUENCE: 3
139     caggtccaac tgcacctcgg ttctatcgat tgaattcccc ggggatcctc 50
140     tagagatccc tcgacctcga cccacgcgtc cgccaggccg ggaggcgacg 100
141     cgcccagccg tctaaacggg aacagccctg gctgagggag ctgcagcgca 150
142     gcagagtatc tgacggcgcc aggttgcgta ggtgcggcac gaggagtttt 200
143     cccggcagcg aggaggtcct gagcagcatg gcccggagga gcgccttccc 250
144     tgccgccgcg ctctggctct ggagcatcct cctgtgcctg ctggcactgc 300
145     gggcggaggc cgggccgccg caggaggaga gcctgtacct atggatcgat 350
146     gctcaccagg caagagtact cataggattt gaagaagata tcctgattgt 400
```

```
147        ttcagagggg aaaatggcac cttttacaca tgatttcaga aaagcgcaac 450
148        agagaatgcc agctattcct gtcaatatcc attccatgaa ttttacctgg 500
149        caagctgcag ggcaggcaga atacttctat gaattcctgt ccttgcgctc 550
150        cctggataaa ggcatcatgg cagatccaac cgtcaatgtc cctctgctgg 600
151        gaacagtgcc tcacaaggca tcagttgttc aagttggttt cccatgtctt 650
152        ggaaacagg atggggtggc agcatttgaa gtggatgtga ttgttatgaa 700
153        ttctgaaggc aacaccattc tccaaacacc tcaaaatgct atcttcttta 750
154        aaacatgtca acaagctgag tgcccaggcg ggtgccgaaa tggaggcttt 800
155        tgtaatgaaa gacgcatctg cgagtgtcct gatgggttcc acggacctca 850
156        ctgtgagaaa gccctttgta ccccacgatg tatgaatggt ggactttgtg 900
157        tgactcctgg tttctgcatc tgcccacctg gattctatgg agtgaactgt 950
158        gacaaagcaa actgctcaac cacctgcttt aatggaggga cctgtttcta 1000
159        ccctggaaaa tgtatttgcc ctccaggact agagggagag cagtgtgaaa 1050
160        tcagcaaatg cccacaaccc tgtcgaaatg gaggtaaatg cattggtaaa 1100
161        agcaaatgta agtgttccaa aggttaccag ggagacctct gttcaaagcc 1150
162        tgtctgcgag cctggctgtg gtgcacatgg aacctgccat gaacccaaca 1200
163        aatgccaatg tcaagaaggt tggcatggaa gacactgcaa taaaaggtac 1250
164        gaagccagcc tcatacatgc cctgaggcca gcaggcgccc agctcaggca 1300
165        gcacacgcct tcacttaaaa aggccgagga gcggcgggat ccacctgaat 1350
166        ccaattacat ctggtgaact ccgacatctg aaacgtttta agttacacca 1400
167        agttcatagc ctttgttaac ctttcatgtg ttgaatgttc aaataatgtt 1450
168        cattacactt aagaatactg gcctgaattt tattagcttc attataaatc 1500
169        actgagctga tatttactct tccttttaag ttttctaagt acgtctgtag 1550
170        catgatggta tagattttct tgtttcagtg ctttgggaca gattttatat 1600
171        tatgtcaatt gatcaggtta aaattttcag tgtgtagttg gcagatattt 1650
172        tcaaaattac aatgcattta tggtgtctgg gggcagggga acatcagaaa 1700
173        ggttaaattg ggcaaaaatg cgtaagtcac aagaatttgg atggtgcagt 1750
174        taatgttgaa gttacagcat ttcagatttt attgtcagat atttagatgt 1800
175        ttgttacatt tttaaaaatt gctcttaatt tttaaactct caatacaata 1850
176        tattttgacc ttaccattat tccagagatt cagtattaaa aaaaaaaaaa 1900
177        ttacactgtg gtagtggcat ttaaacaata taatatattc taaacacaat 1950
178        gaaataggga atataatgta tgaacttttt gcattggctt gaagcaatat 2000
179        aatatattgt aaacaaaaca cagctcttac ctaataaaca ttttatactg 2050
180        tttgtatgta taaaataaag gtgctgcttt agttttttgg aaaaaaaaaa 2100
181        aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggcggccgc gactctagag 2150
182        tcgacctgca gaagcttggc cgccatggcc caacttgttt attgcagctt 2200
183        ataatg 2206
185 <210> SEQ ID NO: 4
186 <211> LENGTH: 379
187 <212> TYPE: PRT
188 <213> ORGANISM: Homo Sapien
189 <400> SEQUENCE: 4
190        Met Ala Arg Arg Ser Ala Phe Pro Ala Ala Ala Leu Trp Leu Trp
191         1               5                  10                  15
192        Ser Ile Leu Leu Cys Leu Leu Ala Leu Arg Ala Glu Ala Gly Pro
193                       20                  25                  30
194        Pro Gln Glu Glu Ser Leu Tyr Leu Trp Ile Asp Ala His Gln Ala
195                       35                  40                  45
196        Arg Val Leu Ile Gly Phe Glu Glu Asp Ile Leu Ile Val Ser Glu
```

RAW SEQUENCE LISTING   DATE: 01/16/2002
PATENT APPLICATION: US/09/904,786   TIME: 15:54:56

Input Set : N:\Crf3\RULE60\09904786.raw
Output Set: N:\CRF3\01162002\I904786.raw

```
197                         50                  55                  60
198     Gly Lys Met Ala Pro Phe Thr His Asp Phe Arg Lys Ala Gln Gln
199                         65                  70                  75
200     Arg Met Pro Ala Ile Pro Val Asn Ile His Ser Met Asn Phe Thr
201                         80                  85                  90
202     Trp Gln Ala Ala Gly Gln Ala Glu Tyr Phe Tyr Glu Phe Leu Ser
203                         95                 100                 105
204     Leu Arg Ser Leu Asp Lys Gly Ile Met Ala Asp Pro Thr Val Asn
205                        110                 115                 120
206     Val Pro Leu Leu Gly Thr Val Pro His Lys Ala Ser Val Val Gln
207                        125                 130                 135
208     Val Gly Phe Pro Cys Leu Gly Lys Gln Asp Gly Val Ala Ala Phe
209                        140                 145                 150
210     Glu Val Asp Val Ile Val Met Asn Ser Glu Gly Asn Thr Ile Leu
211                        155                 160                 165
212     Gln Thr Pro Gln Asn Ala Ile Phe Phe Lys Thr Cys Gln Gln Ala
213                        170                 175                 180
214     Glu Cys Pro Gly Gly Cys Arg Asn Gly Gly Phe Cys Asn Glu Arg
215                        185                 190                 195
216     Arg Ile Cys Glu Cys Pro Asp Gly Phe His Gly Pro His Cys Glu
217                        200                 205                 210
218     Lys Ala Leu Cys Thr Pro Arg Cys Met Asn Gly Gly Leu Cys Val
219                        215                 220                 225
220     Thr Pro Gly Phe Cys Ile Cys Pro Pro Gly Phe Tyr Gly Val Asn
221                        230                 235                 240
222     Cys Asp Lys Ala Asn Cys Ser Thr Thr Cys Phe Asn Gly Gly Thr
223                        245                 250                 255
224     Cys Phe Tyr Pro Gly Lys Cys Ile Cys Pro Pro Gly Leu Glu Gly
225                        260                 265                 270
226     Glu Gln Cys Glu Ile Ser Lys Cys Pro Gln Pro Cys Arg Asn Gly
227                        275                 280                 285
228     Gly Lys Cys Ile Gly Lys Ser Lys Cys Lys Cys Ser Lys Gly Tyr
229                        290                 295                 300
230     Gln Gly Asp Leu Cys Ser Lys Pro Val Cys Glu Pro Gly Cys Gly
231                        305                 310                 315
232     Ala His Gly Thr Cys His Glu Pro Asn Lys Cys Gln Cys Gln Glu
233                        320                 325                 330
234     Gly Trp His Gly Arg His Cys Asn Lys Arg Tyr Glu Ala Ser Leu
235                        335                 340                 345
236     Ile His Ala Leu Arg Pro Ala Gly Ala Gln Leu Arg Gln His Thr
237                        350                 355                 360
238     Pro Ser Leu Lys Lys Ala Glu Glu Arg Arg Asp Pro Pro Glu Ser
239                        365                 370                 375
240     Asn Tyr Ile Trp
242 <210> SEQ ID NO: 5
243 <211> LENGTH: 45
244 <212> TYPE: DNA
245 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
```

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/904,786

DATE: 01/16/2002
TIME: 15:54:57

Input Set : N:\Crf3\RULE60\09904786.raw
Output Set: N:\CRF3\01162002\I904786.raw

```
L:383  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:384  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:385  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:386  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:599  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:1361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:2930 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113
L:3309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:131
L:4388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:174
L:4498 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:175
L:5373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206
L:5374 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206
```